

# SEQUENCE LISTING

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Liew, Choong-Chin

<120> Method for the Detection of Gene Transcripts in Blood and Uses  
Thereof

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<150> US

<151> 2000-01-04

<150> US 60/115,125

<151> 1999-01-06

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<170> PatentIn version 3.2

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45 caaataaaca aaaacttcca atctccattt aaaat 155

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25 gaaaaanttt tccggggggc ccaccggga agggntnccg gggaagg 168

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 cccacatttc cattttaat atatacttg ctttacaat attataatat gttttaa 180

40 atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaa ataagcattc 240  
 tttgaatata tatttagttt ttaattgtg taggaaatc aaagccagag ggagtagaaa 300

caaaattgt gattttctaa atacttctg getgcaggga agaaaccacg tcccaggcga 360

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accaagatgg tcaacaga

438

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15 aaagggggaa ggcccccaa accggggggg gggnaaaaag gtgggtttcc cccttttcc 180  
  
 aattcccaa accaatttc aaaaggnaaa ccaacnttc ccaaatggg aaagg 235

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 45 caaattgggg ggnaaaccaa atttaagggg ggaagggggg gnccccccg ggaaaggccc 180



aaggggggaa aatttttccg ggggtgggtn gggggaacca atttaagggg ggggcccccg 240

gggggggtcc ccttgggcn ttttcttt tgggtnaaaa aaaaaaaccc cttg 294

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15

ctgtacttga actctaaaac tgttgagaaa actcagtgt taccccaaca gattcatttc 180

aaatagctgt aaaaggtatg ttactccag aagaccagag ttgcttctt tgaacttctc 240

20

attccttggg cctaggaacc ctcatcaccc tcateccaac gtcaaccag atcttctctt 300

ccataaacag cactccctca ggcccctgcc tgacacaggc atagactgtc atgttgatt 360

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tttaggcggc accccaacaa caccaggccc tacttttcc aaggncgggg aagcccatgg 180  
45 gtictgggna acgggcaatg cgggcttgca acgggnggaa naaaaacagn cccaaaagaa 240

tg 242

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 tctcagctca ctgcaacctc cacctctcag gagaattgct gaacctggga ggcggaggtt 120  
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c 181

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 cgggaaggcc nttggggaaa aaaccaangg ncaaaccccc ccaaccacnc ggcccccccc 120  
 15 aaggggggtg gggaagagcc aaatttcttt gggaaanaac gcccccttgg ggaaaanaag 180  
 gccaacacc tttaacanc cccaangcg nggaagccat ttcttg 227  
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 30 ggaagaattg tatgtgggag ttttaatgg tctcattca ttggctataa ctcaagtaca 180  
 aggagaaata taactgcaga ggagcttga aaatttagtt cagctgaggg taaaggaaga 240  
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40 ttgaggcgaa aggactcgcg gatttgacgc ttgatgcggt tgcgctcgac ggcgagcttg 180  
  
acgctctttt tgccgatcac caaacctagg cggggatgat caagctgggt atcgcgcgct 240  
  
agcagcagga cacttttgcc cgggagcttt accgcttggg gagtcgaaga ctgccttgna 300  
45 ttgccgggga gtcagcagtc gctttttccc ggncgaagcc tcgaactcac cancctgtct 360

ggattaatta gacagcaaga cgcttgcggc ccctttggcg cgaacgaacn ncgaaaagga 420

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acgagccggg ctggagcggg gggaaaagca aatgtaggca taagtaacga caatgcgggc 120

45 gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggagggtta 180

gtcgggtact aaggcgtag cgaaggcgaa gcgccgatgt gaagggggtt aatattctc 240

cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag 300

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agtgggtgaa acgccagcgc atggcaacct gtaccgcaaa ccgacacagg tagccggggg 420

anaacatcct aagngctcg agagtacttt ctagagcggc cgcgggcccc atcgantttt 480

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gctggaaggc ttgnagggca gaaaagggat ccgcctttgg gaggaacca ggtaaggtt 120  
  
aagaaggaac ccacctngg ggccaaacaa aaacttaaaa acccccccat ttentncccc 180  
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tgtcctgaag gacaagccgn ttcgttgaa nctgtgaaat ac 102

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30 ggtgctcctg cgtttggact gtgcaggcct ctctatgct gatgcgtctc cccactcctg 180

agctaatttc tgctctgctc cttctgtgac atgtggcagc gtgggaaata gccactgtcc 240

35 cctgtccctg ctgttctctg tgcacccag caccaggcca ctctgggagc cagggcagat 300

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5 actagatttt actgtagatg gtagataaaa gtccagtga aagcaaagat gtgtaatgtt 180

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5 ccaaccaaac caaaccaaac caaacagac cagaccagac cagaccagac caaaccaaac 540

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 cacag 125  
  
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 35  
 aatgaatct gagatgaaat gagatgaaaa ntgatacgaa aatgatata aaaaatatga 180  
  
 cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaata tgacatgaaa 240  
  
 40 tgaaatgaga tgatatgaaa tgacataatg aatgatgaa ttgatgatat tgaaatgaaa 300  
  
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 catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga 420  
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 gaaatgagat gaaataaaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa 180  
 30 tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga 240  
 gatgaaatga tgagatgaga tgaaatatga tgagttgaaa tgacataatg aatgaaatga 300  
 35 tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga 360  
 aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaaat 420  
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cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa 180

20 tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg 240

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<210> 75

<211> 155

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<400> 75

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cgccatgaaa tttctgctcg attagcttac gttgtttgga tagaggccaa acaaggctgt 180  
45 tatcggtagc aggaatggat gttcgatttc gtagaatagc cctgagagac ggcgaatact 240

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga 300

aaatatgagg ggtggcaagg tttgcctgt tacattctca aatggaagca aattagatat 360

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gtcattg 367

<210> 77

10 <211> 257

<212> DNA

<213> Human

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atagaaatca ttatttctgt gggatggata attgggccaa attgtaaaat attttaacta 120

30 tcagtgtttg gggtttattt taaaagaat aggggtgccac cagatgttct ttagtggagg 180

agaaatgagg ccagagtgc tgcctagaaa attaagttgg taaattaatc actttttct 240

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 nntaantaaa aagggtgaag aannttactt cnccttggtcc taaaaacnt ttcttcagt 120  
 30 tattaccaa atattggac cattantaaa gantagggcc aaccnaatt ttcttgaaa 180  
 ttccgttaa atagccgtta aatgtttta cccattcat attgatacc ttaaattata 240  
 35 ataatggatt ttattgttaa attgtgtgtg tgtggtgtg atgccctgc tttctcctc 300  
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35 ccctgatgtt caagtattta agaccctatg cnaatatttt ttaccttttc taataaacca 120

tgtttggt 128

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ggccaggcct tcctttaa aaaaaatnac cgttttngg gggangnaac ctttaaagg 120  
ggaaaaanaa tccttttaa anggaantcc aagggaagga ncctgnncaa nactcccn 180  
30 ccaataaaaa aaacntttt ggaaangggg aaa 213

<210> 81

35 <211> 443  
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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

<400> 81

10 gaaatgagat gaaaccatga gnatgaaatg aannaatgnc atgcaaata gaagatgaaa 60

tgatgaaatg agatgagatg agaagaaatg acttgatgag atgagataaa atgatgaaat 120

gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg 180

15 aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat 240

gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa 300

20 tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa 360

tgaaatgttg aaatgaaatg aagagatgta acatgaaatg agctgaaatg atgagatgaa 420

atgaaatgaa atgagattaa atg 443

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 25 gacctctgaa tgtattantg anncaagtga tagccaagat atttgaaga aaaatagata 120  
 ntagggacct gctctataag cccatcataa ttattatga agttataaca agtaaacag 180  
 taaggtattt ggcattggaat agagaaccca gaaacagacc caatgcatgg gtacaggata 240  
 30 taacacaggg aaatgaggga caatatatgg ttctgggata attatttata tggggaaaat 300  
 aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg 360  
 35 catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg 420  
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15 aggaaggaag gaagg 135

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20 <212> DNA  
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aacttctca gaaggacaag agacaaagaa gtggggggagg ccttcctatc catagctgag 180  
35 agggtttatt ctttgtggtt ctgctgtcag agcctttgga tgtctgatct gagatggagc 240  
  
aaccacagct agacagaact ttgtagattt tgggggggtt aaaaggcctc aagcaaattc 300  
  
40 taaaactttc ttgaacccc ctggcatagg ctgagtttcc ctgact 346

<210> 85  
<211> 100  
45 <212> DNA  
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<400> 85

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5 gaaaagaaaa tggtttttt tgccgaaatc aaccgggtaa 100

<210> 86

<211> 201

10 <212> DNA

<213> Human

<400> 86

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15 gaaaagagga agaaacgctt ttaggaggtt aaggattaaa gtaaaaatta ttttgacata 120

attaccttt tttgtacca ctcttaaagg ccaggaacat atttgagaa gcctagtgt 180

20 atgtaacagt gtggggtttc a 201

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25 <212> DNA

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30 aaccagaac gaacgcgtta agtgcgcgtt atcttcttag gatagagtcg gtgacgggaa 120

tcttttacc cggcactcgg gtccaccctc gcggcaccag aggtattctc cggcgagtcg 180

35 ttaaccatcg caatgccga ccgagtttaa ggaccactcc ccaccttct cattagtaa 240

ggagaacgct actttacccc atagacggag aaatcgctac tcaactacca ggcgcgcgcc 300

gtcgagtccc tcttctctc tttatgcatt tagagcgctt tcgtaagagt tttccctaga 360

40 ttcttctaag cgtagcgcgt ctactccaat gtttcgtta atccagccc aactaacgcc 420

gcggaggagt cgatccgtct actcctatcc cgtcggctcg gatttactac aggagctaag 480

45 aaaacaaaa gtaccagccc taaaggaaag tcaaaggacg cccgtaaaaa a 531

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 5 <213> Human

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 acagccaaac cggtcgcccc aaggcctccg tcgttttata atatattccg ttacgtata 180  
 aggaacgaac ccccttcat taccacggtc ccgcgtccgc ctcttctcc attcgcaaca 240  
 15 gttctattcc tttagcctc ccgtacctgc ttccagaaca tcgcaccgcc atagtcgaaa 300  
 gatagcaaag attaccagc ttctattcct cgccccagag ccgagtaaatt cgaagtttat 360  
 20 agaggcggaa tccaaccatt caagagttat aacaagttat cggcactcgg gggatcagaa 420  
 tataaactta atgtccctt tattctcccg gacgccctt ttaaccaatt ctctctatct 480  
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 30 <213> Human

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40 ttccaccggc ctggttttgg ttttccata attaattaac caggggggncc anttaaaaaa 120

aattaaggna aggnntaaaa aatttaacca anggggggtt taaagggnnt tttttttta 180

aaaaaaaagg taaancccc ccctttttt ttgggttggg gtgggaaaat ttgggaanc 240

45 cttaaccccc gggtttttgg gttttttgg ccaaaacccc ccggaaaaaa attaaaaaaa 300



ggaccggttt ccattttaat gggatttggg aa 332

5 <210> 90  
 <211> 185  
 <212> DNA  
 <213> Human

10 <400> 90  
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 cggatggaac tattaaaaca taagttaat cggattttaa aattttaaaa tcaaaaaaaaa 120  
 15 taaaatatat gcaaccctcc attccaagga agtatgatgt tactagatta tctgaaaatt 180  
 ctctt 185

20 <210> 91  
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30 <220>  
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 10 ntaaatngna tgaattaatg atgagatgaa atgntgaatg ccggggtggn tgagatgaat 720  
 tgagttgaac cctgngatga atgaagattg nntgaatggt ggntgaatgt tgaatggntg 780  
 15 gntggnanaa tgcctgtngg 800

<210> 97  
 <211> 334  
 20 <212> DNA  
 <213> Human

<400> 97  
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 gaaatgaaat gatgaaatga atagatgtga catgaaatga gctgaaatga tgagatcaaa 180  
 30 tgaaatgaaa tgagattaaa tgatgagatg aaaactgatg aaaacttaaa tgatgaaata 240  
 atgaaatgaa aatgaaatgg aaatgatgag atgagaagaa atgatgagat gagatgagat 300  
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<210> 98  
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 40 <213> Human

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 <223> n is a, c, g, or t

<400> 98

ttcaggccgt ctgctntac atatactatc gagaatgggtg ctgtgcactc ataacaccgt 60

5 tgcttggtag acgcttttga acccttcagc gctgaaagta 100

<210> 99

<211> 500

10 <212> DNA

<213> Human

<220>

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<223> n is a, c, g, or t

<220>

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<222> (361)..(361)

<223> n is a, c, g, or t

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gaaatgaaat gatgagatga aatgaggtga aatgaaatta gatgaaacgt aatgagatga 180

30 aatgacctaa tgaaatgaaa aatgaaatg aaataatgaa atgaggtgaa attaatgag 240

atgatgaaat taaatgatga aatgaaataa tgaaatggaa atgaaatgga aatgatgaga 300

35 tgaatgatga gatgaaatga tgagatgaga tctaataatg agaggagatg atgagatgaa 360

ntgagatgaa aagagatgaa atgagatgaa accgaaatga tgagatgaaa tgaggtgaaa 420

tgaaattaga tgaaacgtaa tgagatgaaa tgacataatg aaatgaaaaa atgaaatgaa 480

40 ataatgaaat gaggtgaaat 500

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40 <221> misc\_feature  
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ctcagggggt cttttgttct ctacgcctaa aaacttaatc tgtttggaac aattccnttt 180

5 cctctctgta gaaattgacc tggccatggc tcctgtgaat gatacggttg ctattatccc 240

tgaacactgt aaaaatgaac ttgaaacag ttgggtagga cccaacaga aaatgatgta 300

tggcttgga atagtttagc tgaacattat gctttaatat ttactggcc attgcagcac 360

10 aggttttagaa atttatgttc ggctttttaa agtttta 397

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15 <211> 132

<212> DNA

<213> Human

<220>

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<222> (121)..(121)

<223> n is a, c, g, or t

20 <400> 101

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attaattgta ctactttcaa aagaattaat tgaagaaaga gagatacagg gtatctaggc 120

30 ngaggaagac cc 132

<210> 102

<211> 246

35 <212> DNA

<213> Human

<400> 102

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40 ggcactta atttataattg atatatataa taaaaaatc aatgcagata ttgatataat 120

aaaaatagat aatggtaatc caagcacgat ggtagccatc actctaattg ctttgggggtt 180

45 aacctataac ttattaagta aagtgccaga atgggtcttt gacagtatta aaattaaaga 240



aaacag

246

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<212> DNA

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RT-PCR analysis

<220>

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18

20

<210> 104

<211> 18

<212> DNA

25 <213> Artificial Sequence

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quantitative RT-PCR analysis

30

<220>

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<222> (1)..(18)

35

<400> 104

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18

40 <210> 105

<211> 24

<212> DNA

<213> Artificial Sequence

45 <220>

<223> forward primer of  $\beta$ MyHC gene used for quantitative RT-PCR

analysis

<220>

5 <221> primer\_bind

<222> (1)..(24)

<400> 105

gctggaacgt agagactccc tgct

24

10

<210> 106

<211> 24

<212> DNA

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<223> reverse primer of  $\beta$ MyHC gene used for quantitative RT-PCR analysis

20

<220>

<221> primer\_bind

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25

<400> 106

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24

30 <210> 107

<211> 20

<212> DNA

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35 <220>

<223> forward primer of ANF used for quantitative RT-PCR analysis

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<222> (1)..(20)

<400> 107

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20

45

<210> 108  
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 5  
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 15 gcagatcgat cagaggagtc 20  
  
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 25  
  
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 30  
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 35 <210> 110  
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19

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<210> 111  
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10

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15

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21

25

<210> 112  
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<212> DNA  
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30

<220>  
<223> reverse primer of ZFP used for quantitative RT-PCR analysis

35

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22